Soil Descriptions - Non Technical 8B--Sparta Loamy Sand, 1 To 6 Percent Slopes Component Description Sparta and similar soils Extent: 90 percent of the unit Slope range: 1 to 6 percent Surface layer texture: Loamy sand Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Excessively drained Flooding: None Depth to wet soil moisture status: More than 5.0 feet all year Ponding: None Available water capacity to a depth of 60 inches: 5.5 inches Content of organic matter in the upper 10 inches: 1.5 percent Typical profile: H1--0 to 38 inches; loamy sand H2--38 to 60 inches; sand Dassel Extent: 5 percent of the unit Geomorphic description: Depression Hanska Extent: 5 percent of the unit Geomorphic description: Drainageway 27A--Dickinson Fine Sandy Loam, 0 To 2 Percent Slopes Component Description Dickinson and similar soils Extent: 90 percent of the unit Slope range: 0 to 2 percent Surface layer texture: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Well drained Flooding: None Depth to wet soil moisture status: More than 5.0 feet all year Ponding: None Available water capacity to a depth of 60 inches: 7.4 inches Content of organic matter in the upper 10 inches: 1.5 percent Typical profile: H1--0 to 14 inches; fine sandy loam H2--14 to 40 inches; fine sandy loam H3--40 to 60 inches; fine sand Dassel Extent: 5 percent of the unit Geomorphic description: Depression Hanska Extent: 5 percent of the unit

27B--Dickinson Fine Sandy Loam, 2 To 6 Percent Slopes

Geomorphic description:

Component Description

Flat

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Dickinson and similar soils
        Extent: 90 percent of the unit
        Slope range: 2 to 6 percent
        Surface layer texture: Fine sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 7.4 inches
        Content of organic matter in the upper 10 inches: 1.5 percent
        Typical profile:
          H1--0 to 14 inches; fine sandy loam
           H2--14 to 40 inches; fine sandy loam
           H3--40 to 60 inches; fine sand
    Dassel
       Extent: 5 percent of the unit
        Geomorphic description:
          Depression
     Hanska
       Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
31F--Storden Loam, 20 To 35 Percent Slopes
 Component Description
     Storden and similar soils
        Extent: 90 percent of the unit
        Slope range: 20 to 35 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.6 inches
        Content of organic matter in the upper 10 inches: 1.5 percent
        Typical profile:
          H1--0 to 10 inches; loam
          H2--10 to 60 inches; loam
    Delft
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
35--Blue Earth Mucky Silt Loam
 Component Description
     Blue earth and similar soils
       Extent: 90 percent of the unit
        Geomorphic description:
           Relict lakebed
        Slope range: 0 to 1 percent
        Surface layer texture: Mucky silt loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
          At the surface
                                  March April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   February August
        Ponding does not occur (months):
           January February May June July August September October
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November December
        Ponding is deepest (depth, months):
           1.0 foot
                                   April
        Available water capacity to a depth of 60 inches: 12.6 inches
        Content of organic matter in the upper 10 inches: 17.5 percent
        Typical profile:
           H1--0 to 10 inches; mucky silt loam
          H2--10 to 60 inches; mucky silt loam
     Canisteo
        Extent: 5 percent of the unit
        Geomorphic description:
          Rim
41B--Estherville Sandy Loam, 1 To 6 Percent Slopes
 Component Description
     Estherville and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 6 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat excessively drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 4.1 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
          H1--0 to 13 inches; sandy loam
           H2--13 to 18 inches; sandy loam
           H3--18 to 60 inches; gravelly coarse sand
    Biscay
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
69B--Fedji Loamy Fine Sand, 1 To 6 Percent Slopes
 Component Description
     Fedji and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 6 percent
        Surface layer texture: Loamy fine sand
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 8.2 inches
        Content of organic matter in the upper 10 inches: 2.0 percent
        Typical profile:
          H1--0 to 12 inches; loamy fine sand
          H2--12 to 35 inches; loamy fine sand
           H3--35 to 42 inches; clay loam
           H4--42 to 60 inches; clay loam
    Darfur
       Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
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Extent: 5 percent of the unit
        Geomorphic description:
           Depression
84--Brownton Silty Clay Loam
 Component Description
    Brownton and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 1 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
       Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April May
        Wet soil moisture status is lowest (depth, months):
           2.6 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.1 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
          H1--0 to 22 inches; silty clay loam
           H2--22 to 38 inches; silty clay
           H3--38 to 60 inches; silty clay loam
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
86--Canisteo Clay Loam
 Component Description
     Canisteo and similar soils
       Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.4 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
          H1--0 to 22 inches; clay loam
          H2--22 to 36 inches; clay loam
          H3--36 to 60 inches; loam
     Glencoe
       Extent: 5 percent of the unit
        Geomorphic description:
          Depression
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101B--Truman Silt Loam, 1 To 4 Percent Slopes

Component Description

Truman and similar soils

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Extent: 90 percent of the unit
        Slope range: 2 to 4 percent
        Surface layer texture: Silt loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 12.0 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 14 inches; silt loam
          H2--14 to 34 inches; silt loam
          H3--34 to 60 inches; silt loam
    Madelia
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
102B--Clarion Loam, 1 To 4 Percent Slopes
 Component Description
     Clarion and similar soils
       Extent: 90 percent of the unit
        Slope range: 2 to 4 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
       Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 4.5 percent
        Typical profile:
          H1--0 to 16 inches; loam
           H2--16 to 32 inches; loam
          H3--32 to 60 inches; loam
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
     Webster
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
112--Harps Clay Loam
 Component Description
     Harps and similar soils
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Extent: 90 percent of the unit

Geomorphic description:

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Rim
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.9 inches
        Content of organic matter in the upper 10 inches: 4.0 percent
        Typical profile:
          H1--0 to 18 inches; clay loam
          H2--18 to 36 inches; clay loam
           H3--36 to 60 inches; loam
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
113--Webster Clay Loam
 Component Description
     Webster and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.9 inches
        Content of organic matter in the upper 10 inches: 5.5 percent
        Typical profile:
          H1--0 to 23 inches; clay loam
           H2--23 to 33 inches; clay loam
          H3--33 to 60 inches; loam
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
114--Glencoe Clay Loam
 Component Description
     Glencoe and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
          Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
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Very deep (more than 60 inches)

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Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
          At the surface
                                   March April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   February August
        Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
           1.0 foot
                                   April
        Available water capacity to a depth of 60 inches: 11.6 inches
        Content of organic matter in the upper 10 inches: 7.5 percent
        Typical profile:
           H1--0 to 28 inches; clay loam
           H2--28 to 46 inches; clay loam
           H3--46 to 60 inches; clay loam
     Canisteo
       Extent: 5 percent of the unit
118--Crippin Loam
 Component Description
     Crippin and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 3 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
       Drainage class: Somewhat poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           1.5 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 5.5 percent
        Typical profile:
          H1--0 to 17 inches; loam
           H2--17 to 33 inches; loam
          H3--33 to 60 inches; loam
     Canisteo
       Extent: 5 percent of the unit
        Geomorphic description:
           Flat
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
128A--Grogan Silt Loam, 0 To 2 Percent Slopes
 Component Description
     Grogan and similar soils
        Extent: 90 percent of the unit
        Slope range: 0 to 2 percent
        Surface layer texture: Silt loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           2.5 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   February August
        Ponding: None
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Available water capacity to a depth of 60 inches: 11.5 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
          H1--0 to 15 inches; silt loam
          H2--15 to 36 inches; silt loam
           H3--36 to 60 inches; stratified very fine sandy loam to silt loam
    Darfur
       Extent: 5 percent of the unit
        Geomorphic description:
           Flat
    Madelia
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
128B--Grogan Silt Loam, 2 To 6 Percent Slopes
 Component Description
     Grogan and similar soils
        Extent: 90 percent of the unit
        Slope range: 2 to 6 percent
        Surface layer texture: Silt loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April April
        Wet soil moisture status is lowest (depth, months):
                                   January February July August
          More than 5.0 feet
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.5 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 15 inches; silt loam
          H2--15 to 36 inches; silt loam
          H3--36 to 60 inches; stratified very fine sandy loam to silt loam
        Extent: 5 percent of the unit
        Geomorphic description:
          Flat
    Madelia
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
130--Nicollet Loam
 Component Description
     Nicollet and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 3 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           1.5 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                  February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.7 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
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H1--0 to 19 inches; loam
           \mbox{H2--19} to 34 inches; clay loam \mbox{H3--34} to 60 inches; loam
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
     Webster
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
134--Okoboji Silty Clay Loam
  Component Description
     Okoboji and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           At the surface
                                    March April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                    February August
        Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
           1.0 foot
                                    April
        Available water capacity to a depth of 60 inches: 12.4 inches
        Content of organic matter in the upper 10 inches: 8.5 percent
        Typical profile:
           H1--0 to 34 inches; silty clay loam
           H2--34 to 48 inches; silty clay loam
           H3--48 to 60 inches; silty clay loam
     Canisteo
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
        Extent: 5 percent of the unit
        Geomorphic description:
           Rim
136--Madelia Silty Clay Loam
  Component Description
     Madelia and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                    April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                    February August
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Ponding: None
        Available water capacity to a depth of 60 inches: 11.7 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 18 inches; silty clay loam
           H2--18 to 25 inches; silty clay loam
           H3--25 to 60 inches; silt loam
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
140--Spicer Silty Clay Loam
  Component Description
     Spicer and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.7 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 18 inches; silty clay loam
           H2--18 to 30 inches; silty clay loam
           H3--30 to 60 inches; silt loam
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
160--Fieldon Loam
  Component Description
     Fieldon and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 1 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 7.3 inches
        Content of organic matter in the upper 10 inches: 6.5 percent
        Typical profile:
           H1--0 to 16 inches; loam
           H2--16 to 32 inches; fine sandy loam
           H3--32 to 60 inches; loamy fine sand
     Dassel
        Extent: 5 percent of the unit
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Geomorphic description:
Depression
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Depression

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178--Granby Loamy Sand
  Component Description
     Granby and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Depression
        Slope range: 0 to 2 percent
        Surface layer texture: Loamy sand
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           At the surface
                                   March April May June
        Wet soil moisture status is lowest (depth, months):
           1.8 feet
                                   August
        Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
           1.0 foot
                                   April
        Available water capacity to a depth of 60 inches: 5.3 inches
        Content of organic matter in the upper 10 inches: 7.0 percent
        Typical profile:
           H1--0 to 26 inches; loamy sand
           H2--26 to 32 inches; loamy sand
           H3--32 to 60 inches; loamy sand
     Darfur
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
181 -- Litchfield Loamy Fine Sand
  Component Description
     Litchfield and similar soils
        Extent: 90 percent of the unit
        Slope range: 0 to 3 percent
        Surface layer texture: Loamy fine sand
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Moderately well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           2.5 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 6.4 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 21 inches; loamy fine sand
           H2--21 to 40 inches; stratified fine sand to loamy fine sand
           H3--40 to 60 inches; fine sand
     Darfur
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
        Extent: 5 percent of the unit
        Geomorphic description:
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Component Description
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Dassel and similar soils Extent: 90 percent of the unit Geomorphic description: Depression Slope range: 0 to 1 percent Surface layer texture: Fine sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Very poorly drained Flooding: None Wet soil moisture status is highest (depth, months): At the surface March April Wet soil moisture status is lowest (depth, months): 1.8 feet August Ponding does not occur (months): January February May June July August September October November December Ponding is deepest (depth, months): 1.0 foot April Available water capacity to a depth of 60 inches: 8.4 inches Content of organic matter in the upper 10 inches: 9.0 percent Typical profile: H1--0 to 27 inches; fine sandy loam ${\tt H2--27}$ to 37 inches; sandy loam H3--37 to 60 inches; loamy sand Darfur Extent: 5 percent of the unit Geomorphic description: Flat Hanska Extent: 5 percent of the unit Geomorphic description: Flat 197--Kingston Silty Clay Loam Component Description Kingston and similar soils Extent: 90 percent of the unit Slope range: 1 to 3 percent Surface layer texture: Silty clay loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Moderately well drained Flooding: None Wet soil moisture status is highest (depth, months): 2.5 feet April Wet soil moisture status is lowest (depth, months): More than 5.0 feet February August Ponding: None Available water capacity to a depth of 60 inches: 11.3 inches Content of organic matter in the upper 10 inches: 6.0 percent Typical profile: H1--0 to 16 inches; silty clay loam H2--16 to 22 inches; silty clay loam H3--22 to 60 inches; silt loam Madelia Extent: 5 percent of the unit Geomorphic description: Flat Okoboji

Extent: 5 percent of the unit

Geomorphic description:

Flat

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222B--Lasa Loamy Fine Sand, 1 To 6 Percent Slopes
  Component Description
     Lasa and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 6 percent
        Surface layer texture: Loamy fine sand
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 5.3 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 18 inches; loamy fine sand
           H2--18 to 60 inches; fine sand
     Darfur
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
     Dassel
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
227--Lemond Loam
  Component Description
     Lemond and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 6.9 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 18 inches; loam
           H2--18 to 28 inches; sandy loam
           H3--28 to 60 inches; sand
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
229--Waldorf Silty Clay Loam
  Component Description
     Waldorf and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
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Slope range: 0 to 1 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
       Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April May
        Wet soil moisture status is lowest (depth, months):
           2.6 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.9 inches
        Content of organic matter in the upper 10 inches: 7.0 percent
        Typical profile:
          H1--0 to 23 inches; silty clay loam
           H2--23 to 38 inches; silty clay
           H3--38 to 60 inches; silty clay loam
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
247--Linder Sandy Loam
 Component Description
     Linder and similar soils
        Extent: 90 percent of the unit
        Slope range: 0 to 2 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           1.3 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 6.5 inches
        Content of organic matter in the upper 10 inches: 3.5 percent
        Typical profile:
          H1--0 to 18 inches; sandy loam
          H2--18 to 33 inches; sandy loam
          H3--33 to 60 inches; coarse sand
    Biscay
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
    Mayer
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
255--Mayer Loam
 Component Description
    Mayer and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
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0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 8.0 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 19 inches; loam
           H2--19 to 38 inches; loam
           H3--38 to 60 inches; gravelly coarse sand
     Biscay
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
269--Millington Clay Loam, Occasionally Flooded
  Component Description
     Millington and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flood plain
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding does not occur (months):
           January February September October November December
        Flooding is most likely (frequency, months):
                                   March April May June July August
           Occasional
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.1 inches
        Content of organic matter in the upper 10 inches: 5.0 percent
        Typical profile:
           H1--0 to 16 inches; clay loam
           H2--16 to 38 inches; clay loam
           H3--38 to 60 inches; stratified loam to clay loam
     Coland
        Extent: 5 percent of the unit
        Geomorphic description:
           Flood plain
281--Darfur Fine Sandy Loam
  Component Description
     Darfur and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 1 percent
        Surface layer texture: Fine sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 8.1 inches
        Content of organic matter in the upper 10 inches: 5.5 percent
        Typical profile:
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H1--0 to 23 inches; fine sandy loam
           H2--23 to 36 inches; fine sandy loam H3--36 to 60 inches; loamy fine sand
     Dassel
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
     Fieldon
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
282--Hanska Loam
 Component Description
     Hanska and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
        Slope range: 0 to 1 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                    April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                    August
        Ponding: None
        Available water capacity to a depth of 60 inches: 6.4 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 18 inches; loam
           {\tt H2--18} to 30 inches; sandy loam
           H3--30 to 60 inches; sand
     Dassel
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
327A--Dickman Sandy Loam, 0 To 2 Percent Slopes
 Component Description
     Dickman and similar soils
        Extent: 90 percent of the unit
        Slope range: 0 to 2 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat excessively drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 4.7 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 15 inches; sandy loam
           H2--15 to 20 inches; loamy sand
           H3--20 to 60 inches; sand
     Dassel
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
```

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Extent: 5 percent of the unit Geomorphic description: Flat
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327B--Dickman Sandy Loam, 2 To 6 Percent Slopes

Component Description

Dickman and similar soils Extent: 90 percent of the unit Slope range: 2 to 6 percent Surface layer texture: Sandy loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Somewhat excessively drained Flooding: None Depth to wet soil moisture status: More than 5.0 feet all year Ponding: None Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 3.0 percent Typical profile: H1--0 to 15 inches; sandy loam H2--15 to 20 inches; loamy sand H3--20 to 60 inches; sand

Dassel

Extent: 5 percent of the unit Geomorphic description:
Depression

Hanska

Extent: 5 percent of the unit Geomorphic description:
Drainageway

336--Delft Loam

Component Description

Delft and similar soils Extent: 90 percent of the unit Geomorphic description: Drainageway Slope range: 1 to 3 percent Surface layer texture: Loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Flooding: None Wet soil moisture status is highest (depth, months): 0.5 foot April Wet soil moisture status is lowest (depth, months): 3.3 feet February August Ponding: None Available water capacity to a depth of 60 inches: 11.5 inches Content of organic matter in the upper 10 inches: 6.0 percent Typical profile: H1--0 to 29 inches; loam H2--29 to 47 inches; clay loam H3--47 to 60 inches; clay loam Glencoe Extent: 5 percent of the unit

362--Millington Clay Loam, Frequently Flooded

Component Description

Millington and similar soils

Geomorphic description:

Depression

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Extent: 90 percent of the unit
        Geomorphic description:
           Flood plain
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding does not occur (months):
           January February September October November December
        Flooding is most likely (frequency, months):
           Occasional
                                   March April May June July August
        Wet soil moisture status is highest (depth, months):
          0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.2 inches
        Content of organic matter in the upper 10 inches: 5.0 percent
        Typical profile:
           H1--0 to 36 inches; clay loam
           H2--36 to 60 inches; stratified sandy loam to silty clay loam
    Coland
        Extent: 5 percent of the unit
        Geomorphic description:
           Flood plain
392--Biscay Loam
 Component Description
     Biscay and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 7.7 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
          H1--0 to 22 inches; loam
           H2--22 to 32 inches; loam
           H3--32 to 36 inches; sandy loam
          H4--36 to 60 inches; stratified gravelly coarse sand to gravelly
           loamy sand
    Mayer
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
421B--Ves Loam, 1 To 4 Percent Slopes
 Component Description
     Ves and similar soils
        Extent: 90 percent of the unit
        Slope range: 2 to 4 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
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Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.6 inches
        Content of organic matter in the upper 10 inches: 4.0 percent
        Typical profile:
           H1--0 to 14 inches; loam
           H2--14 to 18 inches; loam
           H3--18 to 25 inches; loam
           H4--25 to 60 inches; loam
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
     Webster
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
423--Seaforth Loam
 Component Description
     Seaforth and similar soils
       Extent: 90 percent of the unit
        Slope range: 1 to 3 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Moderately well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           2.5 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.0 inches
        Content of organic matter in the upper 10 inches: 4.5 percent
        Typical profile:
           {\tt H1--0} to 12 inches; loam
           H2--12 to 24 inches; loam
           H3--24 to 60 inches; loam
     Canisteo
        Extent: 5 percent of the unit
        Geomorphic description:
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
446--Normania Loam
 Component Description
    Normania and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 3 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
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2.5 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.8 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 16 inches; loam
           H2--16 to 24 inches; clay loam
           H3--24 to 32 inches; clay loam
           H4--32 to 60 inches; loam
     Canisteo
       Extent: 5 percent of the unit
        Geomorphic description:
     Glencoe
       Extent: 5 percent of the unit
        Geomorphic description:
           Depression
487--Hoopeston Fine Sandy Loam
 Component Description
     Hoopeston and similar soils
        Extent: 90 percent of the unit
        Slope range: 0 to 2 percent
        Surface layer texture: Fine sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           1.3 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.0 feet
                                   August
        Ponding: None
        Available water capacity to a depth of 60 inches: 6.8 inches
        Content of organic matter in the upper 10 inches: 2.5 percent
        Typical profile:
           H1--0 to 18 inches; fine sandy loam
           H2--18 to 32 inches; fine sandy loam
          H3--32 to 60 inches; fine sand
    Darfur
        Extent: 5 percent of the unit
        Geomorphic description:
          Flat
    Dassel
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
517--Shandep Clay Loam
 Component Description
     Shandep and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
          Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           At the surface
                                   March April
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Wet soil moisture status is lowest (depth, months):
           1.8 feet
                                   August
        Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
           1.0 foot
                                   April
        Available water capacity to a depth of 60 inches: 8.9 inches
        Content of organic matter in the upper 10 inches: 8.0 percent
        Typical profile:
           {\tt H1--0} to 22 inches; clay loam
           H2--22 to 40 inches; clay loam
          H3--40 to 60 inches; loamy sand
     Fieldon
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
539--Palms Muck
 Component Description
     Palms and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
          Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
       Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           At the surface
                                   March April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   February August
        Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
                                   April
           1.0 foot
        Available water capacity to a depth of 60 inches: 18.5 inches
        Content of organic matter in the upper 10 inches: 42.5 percent
        Typical profile:
          H1--0 to 31 inches;
           H2--31 to 49 inches; silty clay loam
           H3--49 to 60 inches; silty clay loam
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
562--Knoke Silty Clay Loam
 Component Description
     Knoke and similar soils
       Extent: 90 percent of the unit
        Geomorphic description:
          Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           At the surface
                                  March April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   February August
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Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
           1.0 foot
                                   April
        Available water capacity to a depth of 60 inches: 12.9 inches
        Content of organic matter in the upper 10 inches: 8.5 percent
        Typical profile:
           H1--0 to 10 inches; silty clay loam
           H2--10 to 50 inches; silty clay loam
           H3--50 to 60 inches; silty clay loam
     Canisteo
       Extent: 5 percent of the unit
        Geomorphic description:
           Rim
575--Nishna Silty Clay Loam
 Component Description
     Nishna and similar soils
       Extent: 90 percent of the unit
        Geomorphic description:
           Flood plain
        Slope range: 0 to 2 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
                                   April May
           0.5 foot
        Wet soil moisture status is lowest (depth, months):
           2.6 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 7.3 inches
        Content of organic matter in the upper 10 inches: 5.0 percent
        Typical profile:
           H1--0 to 10 inches; silty clay loam
          H2--10 to 60 inches; silty clay loam
    Millington
        Extent: 5 percent of the unit
        Geomorphic description:
           Flood plain
639B--Ridgeport Sandy Loam, 1 To 6 Percent Slopes
 Component Description
     Ridgeport and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 6 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat excessively drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 3.7 inches
        Content of organic matter in the upper 10 inches: 2.5 percent
        Typical profile:
           H1--0 to 16 inches; sandy loam
           H2--16 to 33 inches; sandy loam
          H3--33 to 60 inches; gravelly coarse sand
    Biscay
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
```

654--Revere Clay Loam Component Description Revere and similar soils Extent: 90 percent of the unit Geomorphic description: Flat Slope range: 0 to 2 percent Surface layer texture: Clay loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Poorly drained Flooding: None Wet soil moisture status is highest (depth, months): 0.5 foot April Wet soil moisture status is lowest (depth, months): 3.3 feet February August Ponding: None Available water capacity to a depth of 60 inches: 10.4 inches Content of organic matter in the upper 10 inches: 6.0 percent Typical profile: H1--0 to 22 inches; clay loam H2--22 to 36 inches; clay loam H3--36 to 60 inches; loam Glencoe Extent: 5 percent of the unit Geomorphic description: Depression 668--Corwith Silt Loam Component Description Corwith and similar soils Extent: 90 percent of the unit Slope range: 1 to 3 percent Surface layer texture: Silt loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Somewhat poorly drained Flooding: None Wet soil moisture status is highest (depth, months): 1.5 feet April Wet soil moisture status is lowest (depth, months): More than 5.0 feet February August Ponding: None Available water capacity to a depth of 60 inches: 11.6 inches Content of organic matter in the upper 10 inches: 5.5 percent Typical profile: H1--0 to 17 inches; silt loam H2--17 to 27 inches; silt loam H3--27 to 60 inches; loamy very fine sand Extent: 5 percent of the unit Geomorphic description: Flat Extent: 5 percent of the unit Geomorphic description: Flat 789B2--Grogan-Lasa Variant Complex, 2 To 6 Percent Slopes, Eroded

Grogan and similar soils

Component Description

```
Extent: 50 percent of the unit
        Slope range: 2 to 6 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 10 inches; loam
          H2--10 to 36 inches; silt loam
          H3--36 to 60 inches; stratified fine sand to loamy fine sand
     Lasa variant and similar soils
        Extent: 40 percent of the unit
        Slope range: 2 to 6 percent
        Surface layer texture: Loamy fine sand
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 5.1 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 10 inches; loamy fine sand
           H2--10 to 60 inches; stratified fine sand to loamy fine sand
    Darfur
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
    Dassel
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
789C2--Lasa Variant-Grogan Complex, 6 To 12 Percent Slopes, Eroded
 Component Description
     Lasa variant and similar soils
       Extent: 50 percent of the unit
        Slope range: 6 to 12 percent
        Surface layer texture: Loamy fine sand
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 4.8 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 10 inches; loamy fine sand
           H2--10 to 34 inches; loamy fine sand
           H3--34 to 60 inches; stratified fine sand to loamy fine sand
     Grogan and similar soils
        Extent: 35 percent of the unit
        Slope range: 6 to 12 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
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Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
                                   January February July August
          More than 5.0 feet
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
          H1--0 to 10 inches; loam
          H2--10 to 32 inches; fine sandy loam
          H3--32 to 60 inches; very fine sandy loam
     Darfur
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
     Dassel
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
790B--Grogan-Dickinson Complex, 1 To 4 Percent Slopes
 Component Description
     Grogan and similar soils
       Extent: 50 percent of the unit
        Slope range: 1 to 4 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.7 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 18 inches; loam
           H2--18 to 35 inches; silt loam
           H3--35 to 60 inches; very fine sandy loam
    Dickinson and similar soils
        Extent: 40 percent of the unit
        Slope range: 1 to 4 percent
        Surface layer texture: Fine sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 7.2 inches
        Content of organic matter in the upper 10 inches: 1.5 percent
        Typical profile:
          H1--0 to 14 inches; fine sandy loam
           H2--14 to 36 inches; fine sandy loam
           H3--36 to 60 inches; fine sand
    Darfur
       Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
```

Extent: 5 percent of the unit Geomorphic description:
Depression

887B--Clarion-Swanlake Loams, 1 To 4 Percent Slopes Component Description Clarion and similar soils Extent: 50 percent of the unit Slope range: 2 to 4 percent Surface layer texture: Loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Well drained Flooding: None Wet soil moisture status is highest (depth, months): 3.6 feet April Wet soil moisture status is lowest (depth, months): More than 5.0 feet January February July August September October December Ponding: None Available water capacity to a depth of 60 inches: 11.2 inches Content of organic matter in the upper 10 inches: 4.5 percent Typical profile: H1--0 to 15 inches; loam H2--15 to 30 inches; loam H3--30 to 60 inches; loam Swanlake and similar soils Extent: 35 percent of the unit Slope range: 2 to 4 percent Surface layer texture: Loam Depth to restrictive feature: Very deep (more than 60 inches) Drainage class: Well drained Flooding: None Wet soil moisture status is highest (depth, months): 3.6 feet April Wet soil moisture status is lowest (depth, months): More than 5.0 feet January February July August September October December Ponding: None Available water capacity to a depth of 60 inches: 11.1 inches Content of organic matter in the upper 10 inches: 2.8 percent Typical profile: H1--0 to 9 inches; loam H2--9 to 60 inches; loam Glencoe Extent: 5 percent of the unit Geomorphic description: Depression Webster Extent: 5 percent of the unit Geomorphic description: Drainageway 909C2--Bold-Truman Silt Loams, 5 To 12 Percent Slopes, Eroded Component Description Bold and similar soils Extent: 50 percent of the unit Slope range: 5 to 12 percent Surface layer texture: Silt loam Depth to restrictive feature:

Very deep (more than 60 inches)

Depth to wet soil moisture status: More than 5.0 feet all year

Drainage class: Well drained

Flooding: None

```
Ponding: None
        Available water capacity to a depth of 60 inches: 13.2 inches
        Content of organic matter in the upper 10 inches: 0.8 percent
        Typical profile:
           H1--0 to 6 inches; silt loam
           H2--6 to 60 inches; silt loam
     Truman and similar soils
       Extent: 40 percent of the unit
        Slope range: 5 to 12 percent
        Surface layer texture: Silt loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.8 inches
        Content of organic matter in the upper 10 inches: 5.6 percent
        Typical profile:
           H1--0 to 9 inches; silt loam
           H2--9 to 20 inches; silt loam
          H3--20 to 60 inches; silt loam
    Madelia
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
920B2--Clarion-Estherville Complex, 2 To 6 Percent Slopes, Eroded
 Component Description
     Clarion and similar soils
        Extent: 45 percent of the unit
        Slope range: 2 to 6 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.0 inches
        Content of organic matter in the upper 10 inches: 4.2 percent
        Typical profile:
           H1--0 to 9 inches; loam
           H2--9 to 28 inches; loam
          H3--28 to 60 inches; loam
     Estherville and similar soils
        Extent: 35 percent of the unit
        Slope range: 2 to 6 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat excessively drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 4.4 inches
        Content of organic matter in the upper 10 inches: 2.8 percent
        Typical profile:
           H1--0 to 9 inches; sandy loam
```

```
Glencoe
       Extent: 5 percent of the unit
        Geomorphic description:
          Depression
     Webster
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
920C2--Clarion-Estherville Complex, 6 To 12 Percent Slopes, Eroded
 Component Description
     Clarion and similar soils
        Extent: 50 percent of the unit
        Slope range: 2 to 4 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
          3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 4.5 percent
        Typical profile:
          H1--0 to 16 inches; loam
          H2--16 to 32 inches; loam
          H3--32 to 60 inches; loam
     Estherville and similar soils
        Extent: 35 percent of the unit
        Slope range: 6 to 12 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat excessively drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 4.5 inches
        Content of organic matter in the upper 10 inches: 2.4 percent
        Typical profile:
          H1--0 to 8 inches; sandy loam
           H2--8 to 21 inches; sandy loam
          H3--21 to 60 inches; coarse sand
     Delft
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
921B2--Clarion-Storden Loams, 3 To 6 Percent Slopes, Eroded
 Component Description
     Clarion and similar soils
        Extent: 65 percent of the unit
```

Slope range: 3 to 5 percent

H2--9 to 20 inches; sandy loam

H3--20 to 60 inches; gravelly coarse sand

```
Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
                                   April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.1 inches
        Content of organic matter in the upper 10 inches: 4.5 percent
        Typical profile:
           H1--0 to 10 inches; loam
           H2--10 to 21 inches; loam
           H3--21 to 60 inches; loam
     Storden and similar soils
        Extent: 25 percent of the unit
        Slope range: 4 to 6 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.5 inches
        Content of organic matter in the upper 10 inches: 1.3 percent
        Typical profile:
           H1--0 to 8 inches; loam
           H2--8 to 36 inches; loam
           H3--36 to 60 inches; loam
     Glencoe
       Extent: 5 percent of the unit
        Geomorphic description:
           Depression
     Webster
       Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
921C2--Clarion-Storden Loams, 6 To 12 Percent Slopes, Eroded
 Component Description
     Clarion and similar soils
       Extent: 65 percent of the unit
        Slope range: 2 to 4 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 4.5 percent
        Typical profile:
           H1--0 to 16 inches; loam H2--16 to 32 inches; loam
           H3--32 to 60 inches; loam
     Storden and similar soils
        Extent: 25 percent of the unit
        Slope range: 6 to 12 percent
```

```
Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.5 inches
        Content of organic matter in the upper 10 inches: 1.3 percent
        Typical profile:
           H1--0 to 8 inches; loam H2--8 to 37 inches; loam
           H3--37 to 60 inches; loam
     Delft
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
929--Fieldon-Canisteo Complex
 Component Description
     Fieldon and similar soils
        Extent: 50 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 1 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                    April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                    August
        Ponding: None
        Available water capacity to a depth of 60 inches: 7.7 inches
        Content of organic matter in the upper 10 inches: 6.5 percent
        Typical profile:
           H1--0 to 12 inches; loam
           H2--12 to 38 inches; fine sandy loam H3--38 to 60 inches; loamy fine sand
     Canisteo and similar soils
        Extent: 35 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 1 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                    April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                    February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 9.7 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 10 inches; clay loam
           H2--10 to 20 inches; loam
           H3--20 to 32 inches; loam
           H4--32 to 60 inches; loam
```

```
Glencoe
        Extent: 10 percent of the unit
        Geomorphic description:
          Depression
954B2--Ves-Storden Loams, 3 To 6 Percent Slopes, Eroded
 Component Description
     Ves and similar soils
        Extent: 50 percent of the unit
        Slope range: 6 to 15 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.4 inches
        Content of organic matter in the upper 10 inches: 3.4 percent
        Typical profile:
          {\tt H1--0} to 8 inches; loam
           H2--8 to 30 inches; loam
           H3--30 to 36 inches; loam
           H4--36 to 60 inches; loam
     Storden and similar soils
        Extent: 30 percent of the unit
        Slope range: 4 to 6 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.5 inches
        Content of organic matter in the upper 10 inches: 1.2 percent
        Typical profile:
          H1--0 to 7 inches; loam
          H2--7 to 34 inches; loam
           H3--34 to 60 inches; loam
     Glencoe
       Extent: 5 percent of the unit
        Geomorphic description:
          Depression
     Webster
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
954C2--Storden-Ves Loams, 6 To 15 Percent Slopes, Eroded
 Component Description
     Storden and similar soils
       Extent: 45 percent of the unit
        Slope range: 6 to 15 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
       Drainage class: Well drained
```

Depth to wet soil moisture status: More than 5.0 feet all year

Flooding: None

Ponding: None

```
Available water capacity to a depth of 60 inches: 10.5 inches
        Content of organic matter in the upper 10 inches: 1.2 percent
        Typical profile:
          H1--0 to 7 inches; loam
          H2--7 to 36 inches; loam
           H3--36 to 60 inches; loam
    Ves and similar soils
        Extent: 40 percent of the unit
        Slope range: 6 to 15 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.4 inches
        Content of organic matter in the upper 10 inches: 3.4 percent
        Typical profile:
           H1--0 to 8 inches; loam
          H2--8 to 30 inches; loam
          H3--30 to 36 inches; loam
          H4--36 to 60 inches; loam
     Delft
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
     Glencoe
        Extent: 5 percent of the unit
        Geomorphic description:
          Depression
956--Canisteo-Glencoe Clay Loams
 Component Description
     Canisteo and similar soils
        Extent: 60 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.2 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 22 inches; clay loam
           H2--22 to 28 inches; clay loam
          H3--28 to 60 inches; loam
     Glencoe and similar soils
        Extent: 20 percent of the unit
        Geomorphic description:
           Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
```

```
Flooding: None
        Wet soil moisture status is highest (depth, months):
          At the surface
                                   March April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                   February August
        Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
           1.0 foot
                                   April
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 7.5 percent
        Typical profile:
          H1--0 to 26 inches; clay loam
           H2--26 to 38 inches; clay loam
          H3--38 to 60 inches; loam
    Harps
        Extent: 5 percent of the unit
        Geomorphic description:
          Rim
960D2--Storden-Clarion Loams, 12 To 18 Percent Slopes, Eroded
 Component Description
     Storden and similar soils
        Extent: 50 percent of the unit
        Slope range: 12 to 18 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.5 inches
        Content of organic matter in the upper 10 inches: 1.4 percent
        Typical profile:
           H1--0 to 9 inches; loam
           H2--9 to 24 inches; loam
           H3--24 to 60 inches; loam
     Clarion and similar soils
        Extent: 35 percent of the unit
        Slope range: 2 to 4 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
          Very deep (more than 60 inches)
       Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 4.5 percent
        Typical profile:
           H1--0 to 16 inches; loam
          H2--16 to 32 inches; loam
          H3--32 to 60 inches; loam
    Delft
        Extent: 5 percent of the unit
        Geomorphic description:
          Drainageway
```

Drainage class: Very poorly drained

```
Ves and similar soils
        Extent: 60 percent of the unit
        Slope range: 4 to 8 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           3.6 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
          More than 5.0 feet
                                   January February July August
                                   September October December
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.4 inches
        Content of organic matter in the upper 10 inches: 3.8 percent
        Typical profile:
           H1--0 to 9 inches; loam
           H2--9 to 26 inches; loam
          H3--26 to 32 inches; loam
          H4--32 to 60 inches; loam
     Estherville and similar soils
        Extent: 30 percent of the unit
        Slope range: 2 to 8 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat excessively drained
        Flooding: None
        Depth to wet soil moisture status: More than 5.0 feet all year
        Ponding: None
        Available water capacity to a depth of 60 inches: 4.4 inches
        Content of organic matter in the upper 10 inches: 2.8 percent
        Typical profile:
           H1--0 to 9 inches; sandy loam
           H2--9 to 20 inches; sandy loam
          H3--20 to 60 inches; gravelly coarse sand
     Glencoe
       Extent: 5 percent of the unit
        Geomorphic description:
          Depression
     Webster
        Extent: 5 percent of the unit
        Geomorphic description:
           Drainageway
1016--Udorthents, Loamy
 Component Description
     Udorthents and similar soils
        Extent: 95 percent of the unit
        Slope range: 0 to 12 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Well drained
        Flooding: None
        Ponding: None
        Available water capacity to a depth of 60 inches: 6.6 inches
        Content of organic matter in the upper 10 inches: 0.8 percent
        Typical profile:
          H1--0 to 60 inches; loam
          H2--60 to 80 inches;
     Webster
        Extent: 5 percent of the unit
```

Geomorphic description:

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1030--Udorthents-Pits, Complex
 Component Description
     Udorthents
        Extent: 50 percent of the unit
        Slope range: 0 to 45 percent
        Surface layer texture: Loam
        Drainage class: Well drained
        Flooding: None
        Ponding: None
        Available water capacity to a depth of 60 inches: 6.6 inches
        Content of organic matter in the upper 10 inches: 0.8 percent
        Typical profile:
          H1--0 to 60 inches; loam
          H2--60 to 80 inches; variable
     Pits
        Extent: 40 percent of the unit
        Slope range: 0 to 45 percent
        Ponding: None
    Mayer
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
1055--Palms-Glencoe Complex, Ponded
 Component Description
     Palms and similar soils
       Extent: 50 percent of the unit
        Geomorphic description:
           Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Muck
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status: At the surface all year
        Ponding is shallowest (depth, months):
           0.5 foot
                                   August September October
        Ponding is deepest (depth, months):
           1.0 foot
                                   January February March April May
                                   June July November December
        Available water capacity to a depth of 60 inches: 17.4 inches
        Content of organic matter in the upper 10 inches: 42.5 percent
        Typical profile:
           H1--0 to 30 inches; muck
           H2--30 to 60 inches; clay loam
     Glencoe and similar soils
        Extent: 30 percent of the unit
        Geomorphic description:
           Depression
        Slope range: 0 to 1 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Very poorly drained
        Flooding: None
        Wet soil moisture status: At the surface all year
        Ponding is shallowest (depth, months):
           0.5 foot
                                   August September October
        Ponding is deepest (depth, months):
           1.0 foot
                                   January February March April May
                                   June July November December
```

Available water capacity to a depth of 60 inches: 11.1 inches

```
Content of organic matter in the upper 10 inches: 7.5 percent
        Typical profile:
           H1--0 to 30 inches; clay loam
           H2--30 to 60 inches; clay loam
     Canisteo
        Extent: 5 percent of the unit
        Geomorphic description:
           Rim
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
1356--Water, Miscellaneous
 Component Description
     Water, miscellaneous
       Extent: 100 percent of the unit
1833 -- Coland Clay Loam, Occasionally Flooded
 Component Description
     Coland and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flood plain
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding does not occur (months):
           January February September October November December
        Flooding is most likely (frequency, months):
           Occasional
                                   March April May June July August
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 12.6 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 10 inches; clay loam
           H2--10 to 60 inches; clay loam
    Millington
        Extent: 5 percent of the unit
        Geomorphic description:
           Flood plain
1834 -- Coland Clay Loam, Frequently Flooded
 Component Description
     Coland and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flood plain
        Slope range: 0 to 2 percent
        Surface layer texture: Clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding does not occur (months):
           January February September October November December
        Flooding is most likely (frequency, months):
```

```
March April May June
           Frequent
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.1 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 10 inches; clay loam
           H2--10 to 36 inches; clay loam
           H3--36 to 60 inches; clay loam
    Millington
        Extent: 5 percent of the unit
        Geomorphic description:
           Flood plain
1907 -- Lakefield Silty Clay Loam
  Component Description
     Lakefield and similar soils
        Extent: 90 percent of the unit
        Slope range: 1 to 3 percent
        Surface layer texture: Silty clay loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Somewhat poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           2.5 feet
                                   April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 11.3 inches
        Content of organic matter in the upper 10 inches: 6.0 percent
        Typical profile:
           H1--0 to 18 inches; silty clay loam
           H2--18 to 60 inches; silt loam
     Madelia
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
     Okoboji
        Extent: 5 percent of the unit
        Geomorphic description:
           Depression
1931--Essexville Sandy Loam
  Component Description
     Essexville and similar soils
        Extent: 90 percent of the unit
        Geomorphic description:
           Flat
        Slope range: 0 to 2 percent
        Surface layer texture: Sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           0.5 foot
                                   April
        Wet soil moisture status is lowest (depth, months):
           3.3 feet
                                   February August
        Ponding: None
        Available water capacity to a depth of 60 inches: 8.4 inches
        Content of organic matter in the upper 10 inches: 5.2 percent
```

```
Typical profile:
           H1--0 to 8 inches; sandy loam
           H2--8 to 22 inches; sand
           H3--22 to 60 inches; clay loam
     Biscay
        Extent: 5 percent of the unit
        Geomorphic description:
           Flat
1981--Hanlon-Kalmarville Complex, 0 To 4 Percent Slopes
  Component Description
     Hanlon and similar soils
        Extent: 50 percent of the unit
        Slope range: 0 to 2 percent
        Surface layer texture: Fine sandy loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Moderately well drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           2.5 feet
                                    April
        Wet soil moisture status is lowest (depth, months):
           More than 5.0 feet
                                    August
        Ponding: None
        Available water capacity to a depth of 60 inches: 10.0 inches
        Content of organic matter in the upper 10 inches: 2.5 percent
        Typical profile:
           H1--0 to 15 inches; fine sandy loam
           H2--15 to 40 inches; fine sandy loam
           H3--40 to 60 inches; loamy sand
     Kalmarville and similar soils
        Extent: 30 percent of the unit
        Geomorphic description:
           Flood plain
        Slope range: 0 to 2 percent
        Surface layer texture: Loam
        Depth to restrictive feature:
           Very deep (more than 60 inches)
        Drainage class: Poorly drained
        Flooding: None
        Wet soil moisture status is highest (depth, months):
           At the surface
                                   March April
        Wet soil moisture status is lowest (depth, months):
           2.0 feet
                                    February August
        Ponding does not occur (months):
           January February May June July August September October
           November December
        Ponding is deepest (depth, months):
           1.0 foot
                                    April
        Available water capacity to a depth of 60 inches: 9.2 inches
        Content of organic matter in the upper 10 inches: 3.0 percent
        Typical profile:
           H1--0 to 12 inches; loam
           H2--12 to 55 inches; fine sandy loam H3--55 to 60 inches; loamy sand
     Millington
        Extent: 5 percent of the unit
        Geomorphic description:
           Flood plain
W--Water
  Component Description
```

Extent: 95 percent of the unit

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